



University  
of Ferrara



UNIMORE  
UNIVERSITÀ DEGLI STUDI DI  
MODENA E REGGIO EMILIA



## Doctoral Positions in Mathematics

Applications are invited for 12 doctoral positions within the PhD Program in Mathematics jointly among the Universities of Ferrara, Modena e Reggio-Emilia, and Parma, starting

**November 1, 2022.**

The program will provide doctoral researchers with a high-quality education in the fields of pure and applied mathematics, and their interactions with computer science. Carefully selected research projects will introduce doctoral researchers to relevant and challenging topics at the forefront of current mathematical research.

In addition to 9 fellowships with research theme open to all fields of mathematics, 3 thematic fellowships are available, two of which funded by the Ministry of Economy and Finance (RRP) at the University of Ferrara in the area of artificial intelligence and machine learning:

- *Physics-informed neural networks with applications to socio-epidemiological dynamics*
- *Artificial intelligence and e-health techniques applied to proprietary platforms for aid and assistance in telemedicine*

and a third one funded by EU (ERC advanced grant) at the University of Modena and Reggio-Emilia:

- *Dynamic causal modeling of brain activity to uncover specific neurophenotypes of dementia associated with anosognosia and delusions*

Employment will be for three years. Applications must be submitted by

**July 25, 2022 at 12.00 (italian time)**

### Your profile

We are looking for highly motivated, excellent candidates with strong mathematical skills and interest in pure and applied mathematics, and computer science. Applicants must hold a master's or equivalent degree in mathematics, computer science or a related field.

### Your responsibilities

Doctoral researchers will work on a theoretical or applied research project, participate in the activities of the PhD program by attending some of the courses offered, and pursue a doctoral degree. Applications must be written in English or Italian at the following link

<http://www.unife.it/studenti/dottorato/concorsi/ordinario> (italian version)

<http://www.unife.it/studenti/dottorato/it/concorsi/selection> (english version)

For further information see <http://dmi.unife.it/en/phd>

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